



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Visco et al.

Attorney Docket No.: PLUSP038

Application No.: 10/825,587

Examiner: Not yet assigned

Filed: April 14, 2004

Group: 1745

Title: ACTIVE METAL CELLS

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S.

Postal Service with sufficient postage as first-class mail on

October 4, 2004 in an envelope addressed to the

Signed

Mia Mitchell-Haynes

INFORMATION DISCLOSURE STATEMENT 37 CFR §§1.56 AND 1.97(b)

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is: (i) filed within three (3) months of the filing date of the above-referenced application, (ii) believed to be filed before the mailing date of a first Office Action on the merits, or (iii) believed to be filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under §1.114. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure

Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. PLUSP038).

Respectfully submitted,

BEXTER WEAVER & THOMAS, LLP

James E. Austin

Registration No. 39,489

P.O. Box 778 Berkeley, CA 94704-0778

Form 1449 (Modified)

Information Disclosure Statement By Applicant

(Use Several Sheets if Necessary)

Atty Docket No. PLUSP038

Applicant: Visco, et al.

Filing Date April 14, 2004 Application No.:

10/825,587

Group 1745

U.S. Patent Documents

Examiner						Sub-	Filing
Initial	No.	Patent No.	Date	Patentee	Class	class	Date
	A1	5,648,187	07/15/97	Skotheim			
	A2	5,314,765	05/24/94	Bates			
	A3	4,981,672	01/01/91	De Neufville et al.			
	A4	6,025,094	02/2000	Visco, et al.			
	A5	5,342,710	08/30/94	Koksbang			
-	A6	5,409,786	04/25/95	Bailey			
	A7	5,100,523	03/31/92	Helms et al.			
	A8	5,696,201	12/09/97	Cavalloni, et al.			
	A9	4,162,202	07/24/79	Dey			
	A10	5,455,126	10/03/95	Bates et al.			
	A11	5,338,625	08/16/94	Bates et al.			
	A12	5,597,660	01/28/97	Bates et al.			
	A13	5,612,152	03/18/97	Bates			
	A14	5,569,520	10/29/96	Bates			
	A15	5,512,147	04/30/96	Bates et al.			
	A16	5,567,210	10/22/96	Bates et al.			
	A17	5,455,126	10/03/95	Bates et al.			
	A18	6,475,677 B1	11/05/02	Inda et al.			
	A19	6,485,622 B1	11/26/02	Fu			
	A20	6,315,881 B1	11/13/01	Fu			
	A21	6,030,909	02/29/00	Fu			
	A22	5,702,995	12/30/97	Fu			
	A23	4,985,317	01/15/91	Adachi et al.		T	
	A24	6,402,795 B1	06/11/02	Chu et al.			
		6,214,061 B1	04/10/01	Visco et al.			
		6,413,284 B1	07/02/02	Chu et al.			
		5,686,201	11/11/97	Chu			
		6,376,123	04/23/02	Chu			
		6,413,285 B1	07/02/02	Chu et al.			
		6,183,901 B1	02/06/01	Ying et al.			
 -		6,432,584 B1	08/13/02	Visco et al.			
		5,961,672	10/05/99	Skotheim et al.			
		5,387,479	02/07/95	Koksbang			
		5,336,384	08/09/94	Tsou et al.			
		3,976,509	08/24/76	Tsai et al.			
		4,007,057	02/08/77	Littauer et al.			

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified)	Atty Docket No. PLUSP038	Application No.: 10/825,587
Information Disclosure	Applicant:	
Statement By Applicant	Visco, et al.	
1	Filing Date	Group
(Use Several Sheets if Necessary)	April 14, 2004	1745

Foreign Patent or Published Foreign Patent Application

		I OI OI BIT I WEEK	t or r asmont	a a or ergan a mount in				
Examiner		Document	Publication	Country or		Sub-	Trans	lation
Initial	No.	No.	Date	Patent Office	Class	class	Yes	No
<u></u>	B1	0875951A1	11/04/98	EP				
	B2	0689260B1	04/21/99	EP				
	B3	0111214A2	11/23/83	EP				
	B4	0111213B1	11/23/83	EP				
	B5	JP 55081471	1980/06/19	Japan				

Other Documents

		Other Documents
Examiner		
Initial	No.	
	C1	Nippon Telegr & Teleph Corp., "Patent Abstracts of Japan," vol. 008, no. 119 (E-
		248), June 5, 1984 & JP 59 031573 A, 20 February 1984.
	C2	Anders et al., "Plasma is Produced Simply", R&D Research & Development, R&D
		Magazine, Vol. 39, No. 10, September 1997, www.rdmag.com, p. 65.
	C3	Steven D. Jones, et al., "Thin film rechargeable Li batteries", 1994, Solid State Ionics
	C4	J.B. Bates, et al., "Thin-film rechargeable lithium batteries," 1995, Journal of Power
		Sources
	C5	N. J. Dudney, et al., "Sputtering of lithium compounds for preparation of electrolyte
		thin films," 1992, Solid State Ionics
	C6	J. B. Bates, et al., "Electrical properties of amorphous lithium electrolye thin films,"
		1992, Solid State Ionics
	C7	Xiaohua Yu, et al, "A Stable Thin-Film Lithium Electrolyte: Lithium Phosphorus
		Oxynitride," 02-97, J. Electrochem. Soc., Vol 144, No. 2
	C8	Fu, Jie, "Fast Li+ Ion Conduction in Li2O-AI2O3-TiO2-SiO2-P2O5 Glass-
		Ceramics", Journal of the American Ceramics Society, Vol. 80, No. 7, July 1997, pp.
		1-5.
	C9	Aono et al., "Ionic Conductivity of the Lithium Titanium Phosphate (Li _{1+X} M _X Ti ₂ .
		$_{\rm X}({\rm PO_4})_3$, M = AI, Sc, Y, and La) Systems", Dept. of Industrial Chemistry, pp. 590-
		591.
	C10	Aono, Hiromichi, "High Li+ Conducting Ceramics", Acc. Chem. Res. Vol. 27, No. 9,
		1994, pp. 265-270.
	C11	· · · · · · · · · · · · · · · · · · ·
		System", Solid State Ionics, 40/41 (1990), pp. 38-42.
	C12	
		lithium hafnium phosphate LiHf ₂ (PO ₄) ₃ ", Solid State Ionics 62 (1993), pp. 309-316.
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified)	Atty Docket No. PLUSP038	Application No.: 10/825,587
Information Disclosure	Applicant:	
Statement By Applicant	Visco, et al.	
' ''	Filing Date	Group
(Use Several Sheets if Necessary)	April 14, 2004	1745

U.S. Patent Documents

Examiner						Sub-	Filing
Initial	No.	Patent No.	Date	Patentee	Class	class	Date
	A37	5,108,856	04/28/92	Shuster			
	A38	5,427,873	06/27/95	Shuster			
	A39	5,525,442	06/11/96	Shuster			
	A40	6,146,787	11/14/00	Harrup et al.			
	A41	5,510,209	04/23/96	Abraham et al.			
	A42	5,652,068	07/29/97	Shuster et al.			
	A43	5,665,481	09/09/97	Shuster et al.			
	A44	4,163,084	07/31/79	Tsai et al.			

Other Documents

Examiner		
Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C13	Aono, et al., "Electrical property and sinterability of LiTi ₂ (PO ₄) ₃ mixed with lithium
		salt (Li ₃ PO ₄ or Li ₃ BO ₃)", Solid State Ionics 47 (1991) pp. 257-264.
	C14	Aono, et al., "Ionic Conductivity of β=Fe ₂ (SO ₄) ₃ Type Li ₃ Cr ₂ (PO ₄) ₃ Based
		Electrolyte", Chemistry Letters, 1993, pp. 2033-2036.
	C15	Aono, et al., "Ionic Conductivity of LiTi ₂ (PO ₄) ₃ Mixed with Lithium Salts",
		Chemistry Letters, 1990, pp. 331-334.
	C16	Fu, Jie, "Superionic conductivity of glass-ceramics in the system Li ₂ O-Al ₂ O ₃ -TiO ₃ -
	1	P ₂ O ₅ ", Solid State Ionics, 96 (1997), pp.195-200.
	C17	Fu, Jie, "Fast Li+ ion conducting glass-ceramics in the system Li ₂ O-Al ₂ O ₃ -GeO ₂ -
		P ₂ O ₅ " Solid State Ionics 104 (1997), pp. 191-194.
	C18	Aono, et al., "DC Conductivity of Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ " Ceramic with Li Electrodes",
		Chemistry Letters, 1991, pp. 1567-1570.
	C19	Aono, et al., "Electrical Properties of Sintered Lithium Titanium Phosphate Ceramics
		$(Li_{1+X}M_XTi_{2-X}PO_4)_3$, $M^{3+}=A1^{3+}$, Sc^{3+} , or Y^{3+})", Chemistry Letters, 1990, pp. 1825-
		1828.
	C20	Button, et al., "Structural disorder and enhanced ion transport in amorphous
		conductors", Solid State Ionics, Vols. 9-10, Part 1, December 1983, pp. 585-592
		(abstract)
	C21	Shuster, Nicholas, "LithiumWater Power Source for Low Power - Long Duration
		Undersea Applications", Westinghouse Electric Corporation, 1990 IEEE, pp. 118-
		123.
	C22	VanVoorhis, et al., "Evaluation of Air Cathodes for Lithium/Air Batteries",
		Electrochemical Society Proceedings Volume 98-16, 1999, pp. 383-390.
Examiner	-	Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified)	Atty Docket No.	Application No.:
, , , ,	PLUSP038	10/825,587
Information Disclosure	Applicant:	
Statement By Applicant	Visco, et al.	
	Filing Date	Group
(Use Several Sheets if Necessary)	April 14, 2004	1745

Other Documents

		Other Documents
Examiner		
Initial	No.	
	C23	
		of Power Sources, 4, (1979), pp. 263-279.
	C24	
		Journal of The Electrochemical Society, 149 (9) (2002), pp. A1190-A1195.
	C25	
		Battery", Technical Papers, Electrochemical Science and Technology, J.
-	1	Electrochem. Soc., Vol. 143, No. 1, January 1996, pp. 1-5.
	C26	Kessler, et al., "Large Microsheet Glass for 40-in. Class PALC Displays", 1997,
	1	FMC2-3, pp. 61-63.
	C27	
		Ni/metal hydride (MH) batteries: a review", International Journal of Hydrogen
	1	Energy, 26 (2001), pp. 725-734.
	C28	
		phosphoric acid-doped silica gel electrolyte", Electrochimica Acta 48 (2003), pp.
	1	1499-1503.
	C29	Li et al., "Lithium-Ion Cells with Aqueous Electrolytes", J. Electrochem. Soc., Vol.
	4	142, No. 6, June 1995, pp. 1742-1746.
	C30	
	1	Electrolytes", J. Electrochem. Soc., Vol. 143, No. 9, September 1996, pp. 2730-2735.
	C31	
	1 1	http://engr.psu.edu/h2e/Pub/Macdonald1.htm, (downloaded January 27, 2004, 3
	1000	pages).
	C32	
	1000	KOH and seawater", Electrochimica Acta 47, (2002), pp. 2495-2503.
	C33	
		Electrolytes", SSI-14, June 22-27, 2003, Monterey, CA. (conference poster).
	C34	1
		Electrolytes", SSI-14 Conference, Monterey, CA., June 22, 2003, Abstract of
		Poster.
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant